

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2162	thermoplastic near20 mold\$4 and polymer and catalyst and fiber near4 reinforc\$6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 10:38
L2	514	thermoplastic near20 mold\$4 near20 polymer and catalyst and fiber near4 reinforc\$6 and (amide or ester or urethane)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 10:38
L3	63	thermoplastic near20 mold\$4 near20 polymer and catalyst near100 (ammonium or phosphane or phosphonium or titanate or titanyl or zirconate or sulfonium) and fiber near4 reinforc\$6 and (amide or ester or urethane)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 10:38
L4	63	thermoplastic near20 mold\$4 near20 polymer and catalyst near100 (ammonium or phosphane or phosphonium or titanate or titanyl or zirconate or sulfonium) and fiber near4 reinforc\$6 and (amide or ester or urethane)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 10:38
L5	58	thermoplastic near20 mold\$4 near20 polymer and catalyst near100 (ammonium or phosphane or phosphonium or titanate or titanyl or zirconate or sulfonium) and fiber near4 reinforc\$6 and (amide or ester or urethane) and (bond\$4 or link\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 10:39
L6	58	thermoplastic near20 mold\$4 near20 polymer and catalyst near100 (ammonium or phosphane or phosphonium or titanate or titanyl or zirconate or sulfonium) and fiber near4 reinforc\$6 and (filler or impact near modifier or reinforcing near material) and (amide or ester or urethane) and (bond\$4 or link\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 10:39

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basics

Rovings are also used to produce a wide variety of **reinforcing materials**, ...

fiber and milled/chopped glass **fiber** as **filler** (particularly injection **molded** ...

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that natural **fiber** composites (bio-based composite **materials**) can be an economical

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[PDF] **Chapter 5. Introduction to Polymer Composite Processing**

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occurs, therefore, injection **molding** for composite **materials** is suitable only

... with a continuous **reinforcing fiber**. Resin-wet rovings are wound with a ...

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The amount of **fiber** reinforcement varies by resin and **reinforcing fiber** (eg, ...

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amount of **catalyst** into a fan-shaped spray of **polymer** or **polymer/filler** mixture

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Composites Basics: Materials-Print Version

Fiber Reinforced Polymer (FRP) composites is defined as a **polymer** (plastic) matrix

... Epoxy resins are used with a number of fibrous **reinforcing materials**, ...

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Composites Basics: Materials 4-Other Matrix Constituents

Fillers help maintain **fiber**-loading uniformity by carrying **reinforcing** fibers

... Heat stabilizers: are used in **thermoplastic** systems to inhibit **polymer** ...

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Changing the length of the chains in a **thermoplastic material** will change ...

metal **fiber**, and/or metal flakes as a **filler** in the **material** or coating the ...

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Pultrusion Industry Council - products & process: glossary of ...

Fiber Bridging: **Reinforcing fiber material** bridging an inside radius of a pultruded

... and for **polymer modification**. Frequently referred to as "**catalyst**". ...

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Coated or impregnated glass fiber fabric - Patent Storm

An injection **molded fiber**-impregnated **thermoplastic** composite **material** ...

polymer and an ethylene propylene rubber; a particulate **filler** and, a fabric. ...

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Thermoplastic Composites - Technology & Business Opportunities

In general, the wood **filler** increases the stiffness of **thermoplastic** but ...

and the hydrophobic **polymer** and can help recover some of the **impact** strength. ...

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meets a higher strength **material**. Crack propagation. in the **impact** test is very sensitive to ... tween the matrix and the **reinforcing fiber**. Since the ...

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sheet **molding** composites (SMCs), pultrusions (pulling a **fiber**/resin composition through a ... contains the **polymer** resin in addition to **filler**, **catalyst**, ...

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The **reinforcing material** placed in position in the **mold**. ... Compound consisting

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[Patent 5397611: Expandable films and molded products therefrom](#)

It has been shown to save weight and **material** cost in carbon **fiber** composites.

... The **thermoplastic polymer** of the expandable particles soften at a ...

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... asbestos or heat stable synthetic **polymer reinforcing filler** and resin impregnant
to ... For example, **reinforcing materials** which may be in powder, ...

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concrete, **polymer**—a composite **material** in which the fine and coarse ... **fiber** mat—a
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deal with **polymer**-based functional and structural **materials** at the different ...
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Since the first "modern" **polymer materials** were used over a hundred years ago,

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the weight of the **fiber** or **polymer** matrix to the total ... become more brittle
and the **impact** property of the **material** is reduced (22). CONCLUSIONS ...

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fiber reinforcement for allyl resins, 139–140. for phenolic resin **filler**, specific
wear ... **thermoplastics**, **mold**, extrusion **materials**,. 187(T). ASTM D 3702 ...

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A **thermoplastic material** made by the intimate blending of ... **reinforcing material**
containing or combined with the full complement of resin before. **molding**. ...

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... and wood fibre filled **thermoplastics**/Polymeric **modifiers** for engineering ...
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In **polymer** processing, the container holding a supply of **molding material** ...

A **thermoplastic material** composed of polymers of vinyl acetate in the form of ...

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ACI; **fiber** mat: a fibrous **reinforcing material** composed of chopped filaments (for
... (See also concrete, **polymer**.) polyethylene: a **thermoplastic** ...

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[United States Patent Application: 0040059042](#)

[0055] The **thermoplastic** composition comprises the **reinforcing filler**, when present,

... [0057] The propylene **polymer material** that forms the backbone or ...

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fiber. Some dirt, **filler** and latex is lost. Purifying these face fibers is difficult.
Therefore ... **polymer** work focused toward engineering **thermoplastics**. ...

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A **filler** and extender used in **thermoplastics**. It occurs naturally in the form of
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Blow **molding** can also consist of putting a **thermoplastic. material** in the ...
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207 ?????? **polymer catalyst** 208 ?????? polymeric carrier, **polymer** support
... 241 ?????? **impact modifier** 242 ??? antifoaming agent ...
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This technology relates to a lubricative coating and **filler material** for restoring
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high electrical conductivity carbon **fiber** in a **thermoplastic polymer** matrix. ...

Critical **Materials**. Silicon carbide monofilament **reinforcing** fibers. ...

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For **thermoplastics**, the **mold** is cooled before removal so the part will not lose

... **filler**: a relatively inert **material** used as the discontinuous phase of a ...

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... (ie cross-linked **polymer** chains) rubber and various **reinforcing materials**.

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Asphalt shingle: a shingle manufactured by coating a **reinforcing material** (felt or

... Polyvinyl chloride (PVC): a synthetic **thermoplastic polymer** prepared ...

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Function / **Impact**. Coupling agent. - help disperse the wood **fiber** in the ...

thermoplastic materials. It was mixed into the **polymer** at the same time as the ...

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polymer segments close to **filler** surfaces show even "frozen" dynamics, ...
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Homopolymer- See "**Polymer**." Hopper- Feed resevoir into which **molding** powder is
... **Impact Modifier**- See "**Filler**." **Impact** Strength- (1) The ability of a ...

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For **thermoplastics**, the **mold** is cooled before removal so the part will not lose its
... screw through a die.**filler**: a relatively inert **material** used as the ...
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Table 3 Key **fiber** properties determined by **polymer** composition ... tion of a
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catalyst. The extremely porous nature of the backing **material** permits the ...
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thermoplastic or thermosetting. **Thermoplastic materials.** deform and soften on
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consists of 100 parts by weight of gum, 30 parts **reinforcing filler**, ...
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polyester:: A synthetic **fiber**. polyester **filler**:: A body repair **material** for ...
prepreg:: The **reinforcing** or **molding material** already impregnated with a ...
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cement-based **materials** do not include **materials** with **polymer modifiers**. ...
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